

Date

4/29/82

ROUTING AND TRANSMITTAL SLIP

TO: (Name, office symbol, room number, building, Agency/Post)	DIVISION OF SACRAMENTO	Initials	Date
1. MARTY MEFFERT			MAY 3 2011
2.			
3.			
4.			
5.			

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

ATTACHED ARE THE AQUIFERS
WHICH REQUIRE ADDITIONAL INFORMATION
TO JUSTIFY EXEMPTIONS AND AN
EXPLANATION OF THE MARKINGS.
IF YOU HAVE ANY QUESTIONS, PLEASE
DON'T HESITATE TO CALL ME.

DO NOT use this form as a RECORD of approvals, concurrences, disposals,
clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

W. Lee

Room No.—Bldg.

Phone No.

5041-102

* U.S. G.P.O. 1980-311-156/10

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

THE AQUIFERS LINED OUT IN RED ARE ONES
WHICH ~~NEED~~^{DO NOT NEED TO} BE EXEMPTED BECAUSE THE
FORMATION FLUID HAS A TOTAL DISSOLVED SOLIDS
CONCENTRATION OF MORE THAN 10,000 MG/L.

THIS IS DONE WITH THE ASSUMPTION THAT
THE "E LOG CALCULATION" IS A VALID
ESTIMATE AND AN "ANALYSIS FROM AN ADJACENT
FIELD"^{WHOLE} IS REPRESENTATIVE OF THE AQUIFER.

The
A ROMAN NUMERALS WRITTEN IN RED INDICATE
MINIMUM CRITERIA WHICH MUST BE MET TO
EXEMPT THE SPECIFIC AQUIFER. THE CRITERIA
IS MINIMUM IN THAT IT IS THE LEAST STRINGENT
CRITERIA WHICH IF MET WOULD EXEMPT THE
AQUIFER AS AN UNDERGROUND SOURCE OF
DRINKING WATER. III IS LESS STRINGENT THAN
IV WHICH IN TURN IS LESS STRINGENT THAN
II).

WHERE AN AQUIFER IS MARKED WITH A "B"
NEXT TO A ROMAN NUMERAL, THERE IS A
QUESTION ABOUT WHETHER OR NOT THE AQUIFER
SHOULD BE EXEMPTED. THE QUALITY OF THE
INJECTION FLUID MAY BE DEMONSTRATED TO BE
BETTER THAN THE FORMATION FLUID.

The aquifers lined out are ones which do not need to be exempted because the formation fluid has a total dissolved solids concentration of more than 10,000 MG/L. This is done with the assumption that the "E" log calculation is a valid estimate and an "analysis from an adjacent field" is representative of the whole aquifer.

The Roman numerals indicate the minimum criteria which must be met to exempt the specific aquifer. The criteria is minimum in that it is the least stringent criteria which if met would exempt the aquifer as an underground source of drinking water (III is less stringent than IV, which in turn is less stringent than V).

Where an aquifer is marked with a "B" next to a Roman numeral, there is a question about whether or not the aquifer should be exempted. The quality of the injection fluid may be demonstrated to be better than the formation fluid).

I. It is mineral, hydrocarbon or geothermal energy producing (or bearing at commercial levels)

A. declaration aquifer is not a current source of drinking water

B. mineral, hydrocarbon or geothermal energy producing

or II. TDS level is 3,000 to 10,000 mg/l TDS and not reasonably expected to supply a public water system

A. declaration aquifer is not a current source of drinking water

B. depth (2X deepest well in basin)

C. location

1. surface distance to existing towns

2. ownership of land

3. alternate water source (surface and groundwater)

4. unusual geology

D. TDS level in formation fluid

E. Yield of water

or III. aquifer situated at depth or location which makes recovery of water for drinking purposes economically or technologically impractical

A. declaration aquifer is not a current source of drinking water

B. TDS level in formation fluids

C. Yield of water

D. depth (3X deepest well in basin)

E. location

1. surface distance to existing towns

2. ownership of land

3. alternative water sources (surface and groundwater)

4. unusually geology

F. Economic Analysis

or IV. so contaminated that it would be economically or technologically impractical to render that water fit for human consumption

A. declaration aquifer is not a current source of drinking water

B. Assess recoverability, treatment -- Economic Analysis.